

BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTT		LLL
BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTT		LLL
BBBBBBBBBBBB		AAAAAAA		SSSSSSSSSS		RRRRRRRRRR		TTTTTTTTTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA	SSS		RRR	RRR	TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRRRRRRRRR		TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAAAAAAAAAAA			SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBB	BBB	AAA	AAA		SSS	RRR	RRR	TTT		LLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL
BBBBBBBBBBBB		AAA	AAA	SSSSSSSS		RRR	RRR	TTT		LLLLLLLLLLLL

BBBBBBBB	AAAAAA	SSSSSSSS	DDDDDDDD	IIIIII	SSSSSSSS	PPPPPPPP	AAAAAA	TTTTTTTT
BBBBBBBB	AAAAAA	SSSSSSSS	DDDDDDDD	IIIIII	SSSSSSSS	PPPPPPPP	AAAAAA	TTTTTTTT
BB	BB	AA	AA	SS	SS	PP	AA	TT
BB	BB	AA	AA	SS	SS	PP	AA	TT
BB	BB	AA	AA	SS	SS	PP	AA	TT
BB	BB	AA	AA	SS	SS	PP	AA	TT
BBBBBBBB	AA	AA	SSSSSS	DD	DD	PPPPPPPP	AA	TT
BBBBBBBB	AA	AA	SSSSSS	DD	DD	PPPPPPPP	AA	TT
BB	BB	AAAAAAAAAA	SS	DD	DD	PP	AAAAAAAAAA	TT
BB	BB	AAAAAAAAAA	SS	DD	DD	PP	AAAAAAAAAA	TT
BB	BB	AA	SS	DD	DD	PP	AA	TT
BB	BB	AA	SS	DD	DD	PP	AA	TT
BBBBBBBB	AA	AA	SSSSSSSS	DDDDDDDD	IIIIII	SSSSSSSS	AA	TT
BBBBBBBB	AA	AA	SSSSSSSS	DDDDDDDD	IIIIII	SSSSSSSS	AA	TT

....
....
....
....

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SSSSSS
LL	II	SSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LLLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLLL	IIIIII	SSSSSSSS


```
1 0001 0 MODULE BAS$$DISPATCH_T (
2 0002 0 IDENT = '1-021'
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: BASIC I/O
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module contains the Global dispatch tables for the UDF (user data
36 0036 1 formatter) level and REC (record) level for BASIC.
37 0037 1 In addition it contains a routine which signals errors for invalid
38 0038 1 statement types.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1
42 0042 1 AST reentrant - all OWN storage is read only
43 0043 1
44 0044 1 AUTHOR: Donald G. Petersen , CREATION DATE: 07-Dec-78
45 0045 1
46 0046 1 MODIFIED BY:
47 0047 1
48 0048 1 DGP,06-Dec-78 : VERSION 1-001
49 0049 1 1-001 - original. DGP 06-Dec-78
50 0050 1 1-002 - Add some functionality to OTSS$$SIGDIS_ERR. DGP 08-Dec-78
51 0051 1 1-003 - Change dispatch tables to longwords. DGP 11-Dec-78
52 0052 1 1-004 - Add Basic READ to dispatch tables. DGP 12-Dec-78
53 0053 1 1-005 - Change FORLNK require file to OTSLNK. JBS 22-DEC-78
54 0054 1 1-006 - Signal the proper errors in the error routine. DGP 18-Jan-79
55 0055 1 1-007 - Change file name to OTSDISPAT to agree with RTL standards
56 0056 1 and internal comments. JBS 27-JAN-1979
57 0057 1 1-008 - Use 32-bit addresses for externals. JBS 27-JAN-1979
```

```
! I/O dispatch tables for all languages
! File: BASDISPAT.B32 Edit: PLL1021
```


BAS\$\$DISPATCH_T
1-021

E 15
16-Sep-1984 00:19:30
14-Sep-1984 11:54:52

VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASDISPAT.B32;1

Page 2
(1)

```

: 58      0058 1 1-009 - Track SBL's changes to the statement types in the ISB.
: 59      0059 1      JBS 09-FEB-1979
: 60      0060 1 1-010 - Add GET and PUT. DGP 19-Feb-79
: 61      0061 1 1-011 - Add PRINT USING and straighten up a lot of Basic stuff. DGP
: 62      0062 1      15-May-79
: 63      0063 1 1-012 - Add MAT INPUT. DGP 05-Jun-79
: 64      0064 1 1-013 - Add MAT PRINT. DGP 15-Jun-79
: 65      0065 1 1-014 - Add remaining FORTRAN statement types. Indexed REWRITE,
: 66      0066 1      keyed READ, internal READ and WRITE. SBL 18-Jun-1979
: 67      0067 1 1-015 - Remove all of the FORTRAN entries. They are moved to
: 68      0068 1      FOR$$DISPATCH_T. Rename this module BAS$$DISPATCH_T.
: 69      0069 1      JBS 26-JUN-1979
: 70      0070 1 1-016 - Use ISB symbols for table length. JBS 12-JUL-1979
: 71      0071 1 1-017 - Add BAS$$SIGDIS JSB. JBS 01-AUG-1979
: 72      0072 1 1-018 - Add Basic MAT READ and MAT LINPUT. DGP 11-Oct-79
: 73      0073 1 1-019 - Add REC9 for Mat Print. DGP 12-Oct-79
: 74      0074 1 1-020 - Add BAS$$REC_MLI1. DGP 12-Oct-79
: 75      0075 1 1-021 - Add Basic GET by RFA and FIND by RFA. PLL 4-Jun-1982
: 76      0076 1 1--
: 77      0077 1
: 78      0078 1 !<BLF/PAGE>
```



```

80      0079 1 |
81      0080 1 | SWITCHES:
82      0081 1 |
83      0082 1 |
84      0083 1 | SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
85      0084 1 |
86      0085 1 |
87      0086 1 | LINKAGE
88      0087 1 |
89      0088 1 |
90      0089 1 | REQUIRE 'RTLIN:OTSLNK';           ! Define all linkages
91      0518 1 |
92      0519 1 |
93      0520 1 | TABLE OF CONTENTS:
94      0521 1 |
95      0522 1 |
96      0523 1 | FORWARD ROUTINE
97      0524 1 |     BAS$$SIGDIS_ERR : CALL_CCB NOVALUE,           ! Signal a dispatch error
98      0525 1 |     BAS$$SIGDIS_JSB : JSB_UDFO NOVALUE;           ! (JSB entry point)
99      0526 1 |
100     0527 1 |
101     0528 1 | INCLUDE FILES:
102     0529 1 |
103     0530 1 |
104     0531 1 | REQUIRE 'RTLIN:RTLPSECT';
105     0626 1 |
106     0627 1 | REQUIRE 'RTLML:OTSISB';           ! Define ISB offsets
107     0795 1 |
108     0796 1 | REQUIRE 'RTLML:OTSLUB';           ! Define LUB offsets
109     0936 1 |
110     0937 1 |
111     0938 1 | MACROS:
112     0939 1 |
113     0940 1 |     NONE
114     0941 1 |
115     0942 1 | EQUATED SYMBOLS:
116     0943 1 |
117     0944 1 |     NONE
118     0945 1 |
119     0946 1 | EXTERNAL REFERENCES:
120     0947 1 |
121     0948 1 |
122     0949 1 | EXTERNAL LITERAL
123     0950 1 |     OTSS_FATINTERR,
124     0951 1 |     OTSS_IO_CONCLO;
125     0952 1 |
126     0953 1 | EXTERNAL ROUTINE
127     0954 1 |     LIB$STOP : NOVALUE;           ! Signal an error and stop
128     0955 1 |
129     0956 1 | !+
130     0957 1 | ! Formatting level of abstraction
131     0958 1 | !-
132     0959 1 |
133     0960 1 | EXTERNAL ROUTINE
134     0961 1 |     BAS$$UDF_RLO : JSB_UDFO NOVALUE,           ! Initialize read list-directed
135     0962 1 |     BAS$$UDF_RL1 : CALL_CCB,                   ! Transmit one I/O list element
136     0963 1 |     BAS$$UDF_RL9 : JSB_UDF9 NOVALUE,           ! Terminate read list directed

```



```
: 137      0964 1      BAS$$UDF_WF0 : CALL_CCB NOVALUE,      ! Initialize write formatted
: 138      0965 1      BAS$$UDF_WF1 : CALL_CCB NOVALUE,      ! Transmit one I/O list element
: 139      0966 1      BAS$$UDF_WF9 : JSB_UDF9 NOVALUE,      ! Terminate write formatted
: 140      0967 1      BAS$$UDF_WL0 : JSB_UDF0 NOVALUE,      ! Initialize write list-directed
: 141      0968 1      BAS$$UDF_WL1 : CALL_CCB NOVALUE,      ! Transmit one I/O list element
: 142      0969 1      BAS$$UDF_WL9 : JSB_UDF9 NOVALUE,      ! Terminate write list-directed
: 143      0970 1      BAS$$UDF_RMFO : JSB_UDF0 NOVALUE,      ! Initialize read memory formatted
: 144      0971 1      BAS$$UDF_RMF1 : CALL_CCB NOVALUE,      ! Transmit one I/O list element
: 145      0972 1      BAS$$UDF_RMF9 : JSB_UDF9 NOVALUE;      ! Terminate read memory formatted
: 146      0973 1
: 147      0974 1      !+
: 148      0975 1      ! Record processing level of abstraction
: 149      0976 1      !-
: 150      0977 1
: 151      0978 1      EXTERNAL ROUTINE
: 152      0979 1      BAS$$REC_RSL0 : JSB_REC0 NOVALUE,      ! Initialize read list-directed
: 153      0980 1      BAS$$REC_RSL1 : JSB_REC1 NOVALUE,      ! Transmit one record
: 154      0981 1      BAS$$REC_RSL9 : JSB_REC9 NOVALUE,      ! Terminate read list-directed
: 155      0982 1      BAS$$REC_WF0 : JSB_REC0 NOVALUE,      ! Initialize write formatted
: 156      0983 1      BAS$$REC_WF1 : JSB_REC1 NOVALUE,      ! Write one record
: 157      0984 1      BAS$$REC_WF9 : JSB_REC9 NOVALUE,      ! Terminate write formatted
: 158      0985 1      BAS$$REC_WSL0 : JSB_REC0 NOVALUE,      ! Initialize write list-directed
: 159      0986 1      BAS$$REC_WSL1 : JSB_REC1 NOVALUE,      ! Write one record
: 160      0987 1      BAS$$REC_WSL9 : JSB_REC9 NOVALUE,      ! Terminate write list-directed
: 161      0988 1      BAS$$REC_RMFO : JSB_REC0 NOVALUE,      ! Initialize read memory formatted
: 162      0989 1      BAS$$REC_RMF1 : JSB_REC1 NOVALUE,      ! More initialization
: 163      0990 1      BAS$$REC_RMF9 : JSB_REC9 NOVALUE,      ! Terminate read memory formatted
: 164      0991 1      BAS$$REC_GSE : JSB_REC9 NOVALUE,      ! GET sequential (RMS) one record
: 165      0992 1      BAS$$REC_PSE : JSB_REC9 NOVALUE,      ! PUT sequential (RMS) one record
: 166      0993 1      BAS$$REC_MPR9 : JSB_REC9 NOVALUE,      ! terminate Mat Print
: 167      0994 1      BAS$$REC_MIN0 : JSB_REC0 NOVALUE,      ! initialize MAT INPUT
: 168      0995 1      BAS$$REC_MIN1 : JSB_REC1,      ! read one record
: 169      0996 1      BAS$$REC_MIN9 : JSB_REC9 NOVALUE,      ! terminate MAT INPUT
: 170      0997 1      BAS$$REC_MLI1 : JSB_REC1,      ! Mat Linput - read one record
: 171      0998 1      BAS$$REC_MRE1 : JSB_REC1;      ! return failure - MAT READ
: 172      0999 1
: 173      1000 1      !
: 174      1001 1      ! OWN STORAGE:
: 175      1002 1      !
: 176      1003 1      DISPATCH_PSECTS (BAS);      ! Define GLOBAL PSECTS same as code
: 177      1004 1      !
: 178      1005 1      !<BLF/PAGE>      ! so short offsets to reach
```



```
180 1006 1 !+
181 1007 1 GLOBAL DISPATCH VECTORS (indexed by I/O statement type numbers):
182 1008 1 Connects the first level of abstraction (UPI) to the
183 1009 1 second level (UDF). Note: The comments down the
184 1010 1 side describe the I/O statement index (UPI level) into the
185 1011 1 dispatch table rather than the external routine contained in
186 1012 1 the entry (UDF level). The entries are the name of the
187 1013 1 User data formatters (UDF level = 2nd level of abstraction) -
188 1014 1 First letter: R = READ, W = WRITE; second letter: F = formatted,
189 1015 1 W = unformatted, L = list-directed.
190 1016 1 Declare as GLOBAL rather than GLOBAL BIND because
191 1017 1 BLISS doesn't allow BIND table = ... - table).
192 1018 1 -
193 1019 1 +
194 1020 1 Initialization of UDF level:
195 1021 1 -
196 1022 1
197 1023 1 GLOBAL
198 1024 1 BAS$$AA_UDF_PRO : VECTOR [ISB$K BASSTTYHI - ISB$K BASSTTYLO + 2,, SIGNED] INITIAL (
199 1025 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, ! I/O on closed unit
200 1026 1 ! I/O statement type:
201 1027 1 BAS$$UDF_WLO - BAS$$AA_UDF_PRO, BASIC Print
202 1028 1 BAS$$UDF_RLO - BAS$$AA_UDF_PRO, BASIC Linput
203 1029 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC PUT place holder
204 1030 1 BAS$$UDF_RLO - BAS$$AA_UDF_PRO, BASIC Input
205 1031 1 BAS$$UDF_WFO - BAS$$AA_UDF_PRO, BASIC Print Using
206 1032 1 BAS$$UDF_RLO - BAS$$AA_UDF_PRO, BASIC Input Line
207 1033 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC DELETE place holder
208 1034 1 BAS$$UDF_RMFO - BAS$$AA_UDF_PRO, BASIC Read memory formatted
209 1035 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC UPDATE place holder
210 1036 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC GET sequential
211 1037 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC RESTORE place holder
212 1038 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC SCRATCH place holder
213 1039 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC PUT relative place holder
214 1040 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC GET relative place holder
215 1041 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC FIND relative place holder
216 1042 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC UNLOCK place holder
217 1043 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC FREE place holder
218 1044 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC GET indexed place holder
219 1045 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC PUT indexed place holder
220 1046 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC MOVE FROM/MOVE TO place holder
221 1047 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC FIND indexed place holder
222 1048 1 BAS$$UDF_RLO - BAS$$AA_UDF_PRO, BASIC MAT INPUT
223 1049 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC RESTORE place holder
224 1050 1 BAS$$UDF_RLO - BAS$$AA_UDF_PRO, BASIC eventually MAT LINPUT
225 1051 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC FIND seq. place holder
226 1052 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC place holder
227 1053 1 BAS$$UDF_WLO - BAS$$AA_UDF_PRO, BASIC MAT PRINT
228 1054 1 BAS$$UDF_RMFO - BAS$$AA_UDF_PRO, BASIC MAT READ
229 1055 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC GET by RFA place holder
230 1056 1 BAS$$SIGDIS_JSB - BAS$$AA_UDF_PRO, BASIC FIND by RFA place holder
231 1057 1 !<BLF/PAGE>
```



```
233 1058 1 !+
234 1059 1 !- Transmit a single I/O list element
235 1060 1 !-
236 1061 1
237 1062 1 GLOBAL
238 1063 1 BAS$$AA_UDF_PR1 : VECTOR [ISB$K_BASSTTYHI - ISB$K_BASSTTYLO + 2,, SIGNED] INITIAL (
239 1064 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, ! I/O on closed unit
240 1065 1 ! I/O statement type:
241 1066 1 BAS$$UDF_WL1 - BAS$$AA_UDF_PR1, BASIC Print
242 1067 1 BAS$$UDF_RL1 - BAS$$AA_UDF_PR1, BASIC Linput
243 1068 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC place holder for PUT
244 1069 1 BAS$$UDF_RLT - BAS$$AA_UDF_PR1, BASIC Input
245 1070 1 BAS$$UDF_WF1 - BAS$$AA_UDF_PR1, BASIC Print Using
246 1071 1 BAS$$UDF_RL1 - BAS$$AA_UDF_PR1, BASIC Input Line
247 1072 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC DELETE place holder
248 1073 1 BAS$$UDF_RMF1 - BAS$$AA_UDF_PR1, BASIC Read memory formatted
249 1074 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC UPDATE place holder
250 1075 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC GET seq. place holder
251 1076 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC RESTORE place holder
252 1077 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC SCRATCH place holder
253 1078 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC PUT relative place holder
254 1079 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC GET relative place holder
255 1080 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC FIND relative place holder
256 1081 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC UNLOCK place holder
257 1082 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC FREE place holder
258 1083 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC GET indexed place holder
259 1084 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC PUT indexed place holder
260 1085 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC MOVE FROM/MOVE TO place holder
261 1086 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC FIND indexed place holder
262 1087 1 BAS$$UDF_RLT - BAS$$AA_UDF_PR1, BASIC MAT INPUT
263 1088 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC RESTORE place holder
264 1089 1 BAS$$UDF_RLT - BAS$$AA_UDF_PR1, BASIC Mat Linput
265 1090 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC FIND seq. place holder
266 1091 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC place holder
267 1092 1 BAS$$UDF_WLT - BAS$$AA_UDF_PR1, BASIC MAT PRINT
268 1093 1 BAS$$UDF_RMF1 - BAS$$AA_UDF_PR1, BASIC MAT READ
269 1094 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC GET by RFA place holder
270 1095 1 BAS$$SIGDIS_ERR - BAS$$AA_UDF_PR1, BASIC FIND by RFA place holder
271 1096 1 !<BLF/PAGE>
```



```

: 273      1097 1  !+
: 274      1098 1  !- End I/O list entry points:
: 275      1099 1  !-
: 276      1100 1
: 277      1101 1 GLOBAL
: 278      1102 1   BAS$$AA_UDF_PR9 : VECTOR [ISB$K_BASSTTYHI - ISB$K_BASSTTYLO + 2,, SIGNED] INITIAL (
: 279      1103 1   -BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, ! I/O on closed unit
: 280      1104 1   ! I/O statement type:
: 281      1105 1   BAS$$UDF_WL9 - BAS$$AA_UDF_PR9, BASIC Print
: 282      1106 1   BAS$$UDF_RL9 - BAS$$AA_UDF_PR9, BASIC Linput
: 283      1107 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC place holder for PUT
: 284      1108 1   BAS$$UDF_RL9 - BAS$$AA_UDF_PR9, BASIC Input
: 285      1109 1   BAS$$UDF_WF9 - BAS$$AA_UDF_PR9, BASIC Print Using
: 286      1110 1   BAS$$UDF_RL9 - BAS$$AA_UDF_PR9, BASIC Input Line
: 287      1111 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC DELETE place holder
: 288      1112 1   BAS$$UDF_RMF9 - BAS$$AA_UDF_PR9, BASIC Read memory formatted
: 289      1113 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC UPDATE place holder
: 290      1114 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC GET seq. place holder
: 291      1115 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC RESTORE place holder
: 292      1116 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC SCRATCH place holder
: 293      1117 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC PUT relative place holder
: 294      1118 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC GET relative place holder
: 295      1119 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC FIND relative place holder
: 296      1120 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC UNLOCK place holder
: 297      1121 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC FREE place holder
: 298      1122 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC GET indexed place holder
: 299      1123 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC PUT indexed place holder
: 300      1124 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC MOVE FROM/MOVE TO place holder
: 301      1125 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC FIND indexed place holder
: 302      1126 1   BAS$$UDF_RL9 - BAS$$AA_UDF_PR9, BASIC MAT INPUT
: 303      1127 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC RESTORE place holder
: 304      1128 1   BAS$$UDF_RL9 - BAS$$AA_UDF_PR9, BASIC Mat Linput
: 305      1129 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC FIND seq. place holder
: 306      1130 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC place holder
: 307      1131 1   BAS$$UDF_WL9 - BAS$$AA_UDF_PR9, BASIC MAT PRINT
: 308      1132 1   BAS$$UDF_RMF9 - BAS$$AA_UDF_PR9, BASIC MAT READ
: 309      1133 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9, BASIC GET by RFA place holder
: 310      1134 1   BAS$$SIGDIS_JSB - BAS$$AA_UDF_PR9); BASIC FIND by RFA place holder
: 311      1135 1 !<BLF/PAGE>

```



```
313 1136 1 !+
314 1137 1 Dispatch tables to call record processing level of abstraction
315 1138 1 routines (REC = 3rd level). Used to connect 2nd level of
316 1139 1 abstraction (UDF) to third level of abstraction (REC).
317 1140 1 The dispatch tables are indexed by I/O statement type (1st
318 1141 1 level UPI.)
319 1142 1 Record processing routine names have the form:
320 1143 1 First letters: R = READ, W = WRITE));
321 1144 1 Second letters: S = sequential, D = direct, M = memory));
322 1145 1 third letters: F = formatted, U = unformatted, L = list-directed.
323 1146 1 -
324 1147 1 !+
325 1148 1 Initialize entry points (read first record or setup
326 1149 1 output buffer).
327 1150 1 -
328 1151 1
329 1152 1 GLOBAL
330 1153 1 BAS$$AA_REC_PRO : VECTOR [ISB$K_BASSTTYHI - ISB$K_BASSTTYLO + 2,, SIGNED] INITIAL (
331 1154 1 -BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, ! I/O to closed unit
332 1155 1 ! I/O statement type:
333 1156 1 BAS$$REC_WSLO - BAS$$AA_REC_PRO, BASIC Print
334 1157 1 BAS$$REC_RSLO - BAS$$AA_REC_PRO, BASIC Linput
335 1158 1 BAS$$REC_PSE - BAS$$AA_REC_PRO, BASIC PUT sequential
336 1159 1 BAS$$REC_RSLO - BAS$$AA_REC_PRO, BASIC Input
337 1160 1 BAS$$REC_WFO - BAS$$AA_REC_PRO, BASIC Print Using
338 1161 1 BAS$$REC_RSLO - BAS$$AA_REC_PRO, BASIC Input Line
339 1162 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC DELETE place holder
340 1163 1 BAS$$REC_RMFO - BAS$$AA_REC_PRO, BASIC Read memory formatted
341 1164 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC UPDATE place holder
342 1165 1 BAS$$REC_GSE - BAS$$AA_REC_PRO, BASIC GET sequential
343 1166 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC RESTORE place holder
344 1167 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC SCRATCH place holder
345 1168 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC PUT relative place holder
346 1169 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC GET relative place holder
347 1170 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC FIND relative place holder
348 1171 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC UNLOCK place holder
349 1172 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC FREE place holder
350 1173 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC GET indexed place holder
351 1174 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC PUT indexed place holder
352 1175 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC MOVE FROM/MOVE TO place holder
353 1176 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC FIND indexed place holder
354 1177 1 BAS$$REC_MINO - BAS$$AA_REC_PRO, BASIC MAT INPUT
355 1178 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC RESTORE indexed place holder
356 1179 1 BAS$$REC_RSLO - BAS$$AA_REC_PRO, BASIC Mat Linput
357 1180 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC FIND seq. place holder
358 1181 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC place holder
359 1182 1 BAS$$REC_WSLO - BAS$$AA_REC_PRO, BASIC MAT PRINT
360 1183 1 BAS$$REC_RMFO - BAS$$AA_REC_PRO, BASIC MAT READ
361 1184 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO, BASIC GET by RFA place holder
362 1185 1 BAS$$SIGDIS_JSB - BAS$$AA_REC_PRO); BASIC FIND by RFA place holder
363 1186 1 !<BLF/PAGE>
```



```

: 365      1187 1 !+
: 366      1188 1 ! Intermediate transfer a record - read second and
: 367      1189 1 ! subsequent records for this I/O statement or write
: 368      1190 1 ! first and all but last record for this I/O statement.
: 369      1191 1 !-
: 370      1192 1
: 371      1193 1 GLOBAL
: 372      1194 1   BAS$$AA_REC PR1 : VECTOR [ISB$K BASSTTYHI - ISB$K BASSTTYLO + 2,, SIGNED] INITIAL (
: 373      1195 1   -BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, ! I/O to closed unit
: 374      1196 1   ! I/O statement type:
: 375      1197 1   BAS$$REC_WSL1 - BAS$$AA_REC PR1, BASIC Print
: 376      1198 1   BAS$$REC_RSL1 - BAS$$AA_REC PR1, BASIC Linput
: 377      1199 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC place holder for PUT
: 378      1200 1   BAS$$REC_RSL1 - BAS$$AA_REC PR1, BASIC Input
: 379      1201 1   BAS$$REC_WF1 - BAS$$AA_REC PR1, BASIC Print Using
: 380      1202 1   BAS$$REC_RSL1 - BAS$$AA_REC PR1, BASIC Input Line
: 381      1203 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC DELETE place holder
: 382      1204 1   BAS$$REC_RMF1 - BAS$$AA_REC PR1, BASIC Read memory formatted
: 383      1205 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC UPDATE place holder
: 384      1206 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC GET seq. place holder
: 385      1207 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC RESTORE place holder
: 386      1208 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC SCRATCH place holder
: 387      1209 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC PUT relative place holder
: 388      1210 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC GET relative place holder
: 389      1211 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC FIND relative place holder
: 390      1212 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC UNLOCK place holder
: 391      1213 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC FREE place holder
: 392      1214 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC GET indexed place holder
: 393      1215 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC PUT indexed place holder
: 394      1216 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC MOVE FROM/MOVE TO place holder
: 395      1217 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC FIND indexed place holder
: 396      1218 1   BAS$$REC_MIN1 - BAS$$AA_REC PR1, BASIC MAT INPUT
: 397      1219 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC RESTORE indexed place holder
: 398      1220 1   BAS$$REC_ML1 - BAS$$AA_REC PR1, BASIC eventually MAT LINPUT
: 399      1221 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC FIND seq. place holder
: 400      1222 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC place holder
: 401      1223 1   BAS$$REC_WSL1 - BAS$$AA_REC PR1, BASIC MAT PRINT
: 402      1224 1   BAS$$REC_MRE1 - BAS$$AA_REC PR1, BASIC MAT READ
: 403      1225 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC GET by RFA place holder
: 404      1226 1   BAS$$SIGDIS_JSB - BAS$$AA_REC PR1, BASIC FIND by RFA place holder
: 405      1227 1 !<BLF/PAGE>
```



```

: 407      1228 1 !+
: 408      1229 1 !- End of I/O list record processing
: 409      1230 1 !-
: 410      1231 1
: 411      1232 1 GLOBAL
: 412      1233 1     BAS$$AA_REC PR9 : VECTOR [ISB$K BASSTTYHI - ISB$K BASSTTYLO + 2,, SIGNED] INITIAL (
: 413      1234 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, ! I/O to closed unit
: 414      1235 1     ! I/O statement type:
: 415      1236 1     BAS$$REC_WSL9 - BAS$$AA_REC PR9, BASIC Print
: 416      1237 1     BAS$$REC_RSL9 - BAS$$AA_REC PR9, BASIC Linput
: 417      1238 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC place holder for PUT
: 418      1239 1     BAS$$REC_RSC9 - BAS$$AA_REC PR9, BASIC Input
: 419      1240 1     BAS$$REC_WF9 - BAS$$AA_REC PR9, BASIC Print Using
: 420      1241 1     BAS$$REC_RSL9 - BAS$$AA_REC PR9, BASIC Input Line
: 421      1242 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC DELETE place holder
: 422      1243 1     BAS$$REC_RMF9 - BAS$$AA_REC PR9, BASIC Read memory formatted
: 423      1244 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC UPDATE place holder
: 424      1245 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC GET seq. place holder
: 425      1246 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC RESTORE place holder
: 426      1247 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC SCRATCH place holder
: 427      1248 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC PUT relative place holder
: 428      1249 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC GET relative place holder
: 429      1250 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC FIND relative place holder
: 430      1251 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC UNLOCK place holder
: 431      1252 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC FREE place holder
: 432      1253 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC GET indexed place holder
: 433      1254 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC PUT indexed place holder
: 434      1255 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC MOVE FROM/MOVE TO place holder
: 435      1256 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC FIND indexed place holder
: 436      1257 1     BAS$$REC_RIN9 - BAS$$AA_REC PR9, BASIC MAT INPUT
: 437      1258 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC RESTORE indexed place holder
: 438      1259 1     BAS$$REC_RSC9 - BAS$$AA_REC PR9, BASIC Mat Linput
: 439      1260 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC FIND seq. place holder
: 440      1261 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC place holder
: 441      1262 1     BAS$$REC_MPR9 - BAS$$AA_REC PR9, BASIC MAT PRINT
: 442      1263 1     BAS$$REC_RMF9 - BAS$$AA_REC PR9, BASIC MAT READ
: 443      1264 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC GET by RFA place holder
: 444      1265 1     BAS$$SIGDIS_JSB - BAS$$AA_REC PR9, BASIC FIND by RFA place holder
: 445      1266 1 !+
: 446      1267 1 !- Return to normal PSECT definition
: 447      1268 1 !-
: 448      1269 1 DECLARE_PSECTS (BAS);
: 449      1270 1 !
```



```

451 1271 1 ROUTINE BAS$$$SIGDIS_ERR : CALL_CCB NOVALUE = !
452 1272 1
453 1273 1 ++
454 1274 1 FUNCTIONAL DESCRIPTION:
455 1275 1
456 1276 1 Signal an error from the I/O dispatch process. The error code
457 1277 1 signalled depends on the statement type. One statement type is
458 1278 1 used by CLOSE to catch dispatches on a closed unit, which can
459 1279 1 happen if the CLOSE is done as part of recursive I/O. If the
460 1280 1 statement type is not the one used by CLOSE, we have an error
461 1281 1 in the RTL (an invalid statement type).
462 1282 1
463 1283 1 FORMAL PARAMETERS:
464 1284 1
465 1285 1 NONE
466 1286 1
467 1287 1 IMPLICIT INPUTS:
468 1288 1
469 1289 1 ISB$B_STTM_TYPE.rb.r Statement type of I/O statement
470 1290 1
471 1291 1 IMPLICIT OUTPUTS:
472 1292 1
473 1293 1 NONE
474 1294 1
475 1295 1 ROUTINE VALUE:
476 1296 1 COMPLETION CODES:
477 1297 1
478 1298 1 NONE
479 1299 1
480 1300 1 SIDE EFFECTS:
481 1301 1
482 1302 1 Signals OTS$ IO_CONCLO if the LUB is not open, or
483 1303 1 OTS$_FATINTERR if it is.
484 1304 1
485 1305 1 --
486 1306 1
487 1307 2 BEGIN
488 1308 2
489 1309 2 EXTERNAL REGISTER
490 1310 2 CCB : REF BLOCK [, BYTE];
491 1311 2
492 1312 3 IF ( NOT .CCB [LUB$V_OPENED])
493 1313 2 THEN
494 1314 2 ++
495 1315 2 The file must have been closed with I/O still active on it.
496 1316 2 --
497 1317 2 LIB$STOP (OTS$ IO_CONCLO)
498 1318 2 ELSE
499 1319 2 ++
500 1320 2 This must be an attempt to use an unimplemented feature. It represents
501 1321 2 an internal error in the OTS.
502 1322 2 --
503 1323 2 LIB$STOP (OTS$_FATINTERR);
504 1324 2
505 1325 2 0
506 1326 1 END;

```


[illegible]


```
00000000* 00000000* 00000000V 00000000* 00000000* 00000000V 000F8 BAS$$AA_UDF PR9:
00000000V 00000000V 00000000V 00000000* 00000000V 00000000* 00110
00000000V 00000000V 00000000V 00000000V 00000000V 00000000V 00128
00000000V 00000000* 00000000V 00000000V 00000000V 00000000V 00140
00000000V 00000000* 000000C0* 00000000V 00000000V 00000000* 00158
00000000V 00000000V 00000000V 00000000V 00000000V 00000000V 00170

00000000* 00000000* 00000000* 00000000* 00000000* 00000000V 00174 BAS$$AA_REC PRO:
00000000V 00000000* 00000000V 00000000* 00000000V 00000000* 0018C
00000000V 00000000V 00000000V 00000000V 00000000V 00000000V 001A4
00000000V 00000000* 00000000V 00000000V 00000000V 00000000V 001BC
00000000V 00000000* 00000000* 00000000V 00000000V 00000000* 001D4
00000000V 00000000V 00000000V 00000000V 00000000V 00000000V 001EC

<BAS$$SIGDIS_ERR-BAS$$AA_UDF_PR1>, -
<BAS$$SIGDIS_ERR-BAS$$AA_UDF_PR1>, -
<BAS$$SIGDIS_ERR-BAS$$AA_UDF_PR1>, -
<BAS$$SIGDIS_ERR-BAS$$AA_UDF_PR1>, -
<BAS$$UDF_RLT-BAS$$AA_UDF_PR1>, -
<BAS$$SIGDIS_ERR-BAS$$AA_UDF_PR1>, -
<BAS$$UDF_RLT-BAS$$AA_UDF_PR1>, -
<BAS$$SIGDIS_ERR-BAS$$AA_UDF_PR1>, -
<BAS$$SIGDIS_ERR-BAS$$AA_UDF_PR1>, -
<BAS$$UDF_WLT-BAS$$AA_UDF_PR1>, -
<BAS$$UDF_RMF1-BAS$$AA_UDF_PR1>, -
<BAS$$SIGDIS_ERR-BAS$$AA_UDF_PR1>, -
<BAS$$SIGDIS_ERR-BAS$$AA_UDF_PR1>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$UDF_WL9-BAS$$AA_UDF_PR9>, -
<BAS$$UDF_RL9-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$UDF_RL9-BAS$$AA_UDF_PR9>, -
<BAS$$UDF_WF9-BAS$$AA_UDF_PR9>, -
<BAS$$UDF_RL9-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$UDF_RMF9-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
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<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
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<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$UDF_RL9-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$UDF_RL9-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$UDF_WL9-BAS$$AA_UDF_PR9>, -
<BAS$$UDF_RMF9-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_UDF_PR9>, -
<BAS$$SIGDIS_JSB-BAS$$AA_REC_PRO>, -
<BAS$$REC_WSC0-BAS$$AA_REC_PRO>, -
<BAS$$REC_RSLO-BAS$$AA_REC_PRO>, -
<BAS$$REC_PSE-BAS$$AA_REC_PRO>, -
<BAS$$REC_RSLO-BAS$$AA_REC_PRO>, -
<BAS$$REC_WFO-BAS$$AA_REC_PRO>, -
<BAS$$REC_RSLO-BAS$$AA_REC_PRO>, -
<BAS$$SIGDIS_JSB-BAS$$AA_REC_PRO>, -
<BAS$$REC_RMF0-BAS$$AA_REC_PRO>, -
<BAS$$SIGDIS_JSB-BAS$$AA_REC_PRO>, -
<BAS$$REC_GSE-BAS$$AA_REC_PRO>, -
```


[illegible]

```

. EXTRN      OTSS FATINTERR, OTSS IO-CONCLO
. EXTRN      LIB$STOP, BASS$UDF RCO
. EXTRN      BASS$UDF_RL1, BASS$UDF_RL9
. EXTRN      BASS$UDF_WF0, BASS$UDF_WF1
. EXTRN      BASS$UDF_WF9, BASS$UDF_WL0
. EXTRN      BASS$UDF_WL1, BASS$UDF_WL9
. EXTRN      BASS$UDF_RMFO, BASS$UDF_RMF1
. EXTRN      BASS$UDF_RMF9, BASS$REC_RSLO
. EXTRN      BASS$REC_RSL1, BASS$REC_RSL9
. EXTRN      BASS$REC_WF0, BASS$REC_WF1
. EXTRN      BASS$REC_WF9, BASS$REC_WSL0
. EXTRN      BASS$REC_WSL1, BASS$REC_WSL9
. EXTRN      BASS$REC_RMFO, BASS$REC_RMF1
. EXTRN      BASS$REC_RMF9, BASS$REC_GSE
. EXTRN      BASS$REC_PSE, BASS$REC_MPR9
. EXTRN      BASS$REC_MIN0, BASS$REC_MIN1
. EXTRN      BASS$REC_MIN9, BASS$REC_MLI1
. EXTRN      BASS$REC_MRE1

```

0000 00000 BAS\$\$\$SIGDIS_ERR:

```

08          FC AB E8 00002
        00000000G 8F DD 00006
              06 11 0000C
        00000000G 8F DD 0000E 1$:
00000000G 00    01 FB 00014 2$:
                04 0001B

```

```

        .WORD      Save nothing
        BLBS       -4(CCB), 1$
        PUSHL      #OTSS-10_CONCLO
        BRB        2$
        PUSHL      #OTSS_FATINTERR
        CALLS      #1, LIB$STOP
        RET

```

: 1271
: 1312
: 1317
:
: 1323
:
: 1326

; Routine Size: 28 bytes, Routine Base: _BAS\$CODE + 02E8

BAS\$\$DISPATCH_T
1-021

F 16
16-Sep-1984 00:19:30
14-Sep-1984 11:54:52

VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASDISPAT.B32;1

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(9)


```
508 1327 1 ROUTINE BAS$$SIGDIS_JSB : JSB_UDFO NOVALUE = !
509 1328 1
510 1329 1 ++
511 1330 1 FUNCTIONAL DESCRIPTION:
512 1331 1
513 1332 1 Signal an error from the I/O dispatch process. The error code
514 1333 1 signalled depends on the statement type. One statement type is
515 1334 1 used by CLOSE to catch dispatches on a closed unit, which can
516 1335 1 happen if the CLOSE is done as part of recursive I/O. If the
517 1336 1 statement type is not the one used by CLOSE, we have an error
518 1337 1 in the RTL (an invalid statement type).
519 1338 1
520 1339 1 FORMAL PARAMETERS:
521 1340 1
522 1341 1 NONE
523 1342 1
524 1343 1 IMPLICIT INPUTS:
525 1344 1
526 1345 1 ISB$B_STTM_TYPE.rb.r Statement type of I/O statement
527 1346 1
528 1347 1 IMPLICIT OUTPUTS:
529 1348 1
530 1349 1 NONE
531 1350 1
532 1351 1 ROUTINE VALUE:
533 1352 1 COMPLETION CODES:
534 1353 1
535 1354 1 NONE
536 1355 1
537 1356 1 SIDE EFFECTS:
538 1357 1
539 1358 1 Signals OTSS$IO_CONCLO if the LUB is not open, or
540 1359 1 OTSS$FATINTERR if it is.
541 1360 1
542 1361 1 --
543 1362 1
544 1363 2 BEGIN
545 1364 2
546 1365 2 EXTERNAL REGISTER
547 1366 2 CCB : REF BLOCK [, BYTE];
548 1367 2
549 1368 3 IF ( NOT .CCB [LUB$V_OPENED])
550 1369 2 THEN
551 1370 2 ++
552 1371 2 The file must have been closed with I/O still active on it.
553 1372 2 --
554 1373 2 LIB$STOP (OTSS$IO_CONCLO)
555 1374 2 ELSE
556 1375 2 ++
557 1376 2 This must be an attempt to use an unimplemented feature. It represents
558 1377 2 an internal error in the OTS.
559 1378 2 --
560 1379 2 LIB$STOP (OTSS$FATINTERR);
561 1380 2
562 1381 2 0
563 1382 1 END; !End of BAS$$SIGDIS_JSB
```



```

08      FC  AB  E8 00000 BAS$$SIGDIS JSB:
      00000000G 8F DD 00004 BLBS -4(CCB), 1$ : 1368
      00000000G 06 11 0000A PUSHL #OTSS_10_CONCLO : 1373
      00000000G 8F DD 0000C 1$: BRB 2$ : 1379
00000000G 00 01 FB 00012 2$: CALLS #1, LIB$STOP : 1382
      05 00019 RSB

```

: Routine Size: 26 bytes, Routine Base: _BAS\$CODE + 0304

```

: 564      1383 1 END !End of module
: 565      1384 1
: 566      1385 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
_BAS\$CODE	798	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

COMMAND QUALIFIERS

```

: BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS$:BASDISPAT/OBJ=OBJ$:BASDISPAT MSRC$:BASDISPAT/UPDATE=(ENH$:BASDISPAT
: )

```

```

: Size: 54 code + 744 data bytes
: Run Time: 00:12.7
: Elapsed Time: 00:27.1
: Lines/CPU Min: 6558
: Lexemes/CPU-Min: 34456
: Memory Used: 135 pages
: Compilation Complete

```


0021 AH-BT13A-SE
VAX/VMS V4.0

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